

MKULTRA 3: Asking the Super-Important Questions

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Tossups

1. In *The Binding of Isaac: Rebirth*, this character is unlocked by completing The Womb and requires namesake tokens to be used. This name appears in the title of a single used in Wim Wenders' *Until the End of the World* that was re-released featuring Sinead O'Connor on Peter Gabriel's *Us*. The video "The Truth" ends with an ASCII code for this name and its (*) "Pieces" appear throughout *Assassin's Creed*. A Channel 4 reality show with this name was cancelled after four months without telling the contestants. The first name of a midfielder who signed from Lille in 2012 to join Chelsea is shared with, for 10 points, what location west of the Land of Nod that was the Biblical Garden of Adam and Eve?

ANSWER: Eden [accept "*Blood of Eden*"; or Pieces of Eden; or Eden Hazard; or Garden of Eden] <EBL, Miscellaneous>

2. Charlotte Brewer suggests that the Z-text is an early version of this work, in which Haukyn the Active Man wears a coat soiled with the Seven Deadly Sins. In one section of this work, the narrator re-enacts the Fall of Man in front of the Tree of Charity. This work, which is divided into sections called "passus", begins when its narrator falls asleep atop the (*) Malvern Hills and has a vision of a 'fair field full of folk' standing between the tower of heaven and 'donjon' of hell. The narrator of this poem, named Will, follows the examples of Do-well, Dobet and Dobest. For ten points, name this allegorical poem by William Langland.

ANSWER: Piers Plowman <ABB, Literature>

3. Despite his intention to translate all of the works of Plato and Aristotle, this man's main translation work concerned Aristotle's work on logic, which he expanded on in his *In Ciceronis Topica*. This man's most famous work is presented as a conversation between the author and a woman representing the title (*) discipline, who argues that he can be happy because he still possesses his true goods, and that wealthier men can be adversely affected by the wheel of Fortune. For ten points each, name this sixth-century Neoplatonist philosopher, a Roman official who wrote about his imprisonment in *The Consolation of Philosophy*.

ANSWER: Boethius <FCM, Philosophy>

4. After being wounded in the leg before this battle Giovanni de Medici was given permission to return to Piacenza by the Marquis of Pescara, Fernando Avalos. Charles de Lannoy coordinated an attack on the Porta Pescara in this battle to gain access to Mirabello Park. The final active Yorkist pretender to the English throne, Richard de la Pole, was killed at this battle. This battle's loser wrote to his mother Louise of Savoy that (*) "Of all things, nothing remains to me but honour and life, which is safe" while imprisoned in Pizzighettone. For 10 points name this 1525 battle where Francis I's invasion of Italy was halted as he was captured by the forces of Charles V.

ANSWER: Battle of Pavia <DJ, History>

5. In one story from this conflict, a learned man gains the respect of cavalymen by standing on the head of a goose owned by a suicidal woman. In one novel, the protagonist wakes up in a modern psychiatric hospital remembering only this conflict where he accompanied the officer Chapaev. This setting of "My First Goose" and *Clay Machine Gun* is also the background to the flight of one title character to the estate of (*) Varykino, where he finds out that "the Executioner" is the husband of

his mistress Lara. That novel with that section about this conflict sees Yuri flee Moscow. For 10 points, what broad conflict is the setting of Mikhail Bulgakov's *The White Guard* and Isaac Babel's *Red Cavalrymen*?

ANSWER: **Russian Civil** War [accept **Soviet-Polish War**; prompt on "**Russian Revolution**"] <D>, Literature>

6. **This golfer resigned from the Kansas City Country Club over its refusal to admit a Jewish player. John Mahaffey's only win in a major came in a playoff win over Jerry Pate and this man. Hale Irwin missed a putt of a few inches to help this golfer win his last major at Royal Birkdale. A chip shot into the hole at the 17th helped this golfer edge in front of (*) Jack Nicklaus in the final round of the 1982 US Open. A playoff loss to Stewart Cink prevented this golfer from becoming the oldest man to win a major at the 2009 Open. For 10 points, name this US golfer who won The Open Championship five times the 1970s and 80s.**

ANSWER: (Thomas Sturges) "**Tom**" **Watson** [prompt on **Watson**] <DK, Miscellaneous>

7. **One form of this condition may have been brought about by exposure to railway accidents; that form was later treated by W.H.R. Rivers during the First World War. One patient diagnosed with this condition developed aphonia in a case study centring on her relationship with a couple denoted by the letter K. One form of treatment for this condition involved (*) massages from midwives or doctors, which were later replaced by vibrators. Emmy von N. and Anna O. were included in a series of five 'Studies on' this condition written by Sigmund Freud. For ten points, name this historical mental condition, which was mostly diagnosed in women, and is largely unrelated to a contemporary 'mass' variant.**

ANSWER: **hysteria** [accept male **hysteria** or **shell shock** in the first sentence] <FCM, Social Science>

8. **The Marxist philosopher Karl Kautsky joined a group that split from this organisation to follow the anti-war policies of Hugo Haase. A work on *Woman and one of this organisation's* title concepts was written by August Bebel [OW-gust BAY-bul], who became its leader after it formed from two predecessors, a process discussed in Marx's (*) *Critique of the Gotha* [GOE-tuh] *Program*. A later leader of this party was the President briefly overthrown in the Kapp Putsch, Friedrich Ebert, and this party's members later offered the main opposition in the Reichstag to the passage of the Enabling Act. For 10 points, name this centre-left party that forms a Grand Coalition in Germany with the Christian Democrats.**

ANSWER: **Social Democratic** Party of Germany [accept **Social Democrats** or **SPD**; accept **Sozialdemokratische Partei Deutschlands**] <ED, History>

9. **A 2009 summer anthem from this country repeated the chorus "You want my willy / yeah yeah yeah / I'm going to give it to you". In a 2006 viral hit from this country, a man rapping in a field of cows introduced himself as Kamini from the only black family in a rural village. Another rapper from this country opened with the lyric (*) "Fuck the Earth" in a song in which he "cries". A send-up of Black Eyed Peas from this country declared "this morning is going to be a good night" while buying bread at a bakery; in another single, the same artist urged to "get your balaclava on". For 10 points, name this home country of Fatal Bazooka, MC Solaar, and Guadeloupean Francky Vincent [VAHN-sohn].**

ANSWER: **France** (accept **French** Republic or République **française**) <ED, Trash>

10. **In 2003, it was reported that 5 to 10 parts per billion of this compound could degrade cyanine-5 dyes in micro-array samples. Dissociative absorption bands in this compound are named for Chappuis, Wulf, Huggins and Hartley. A mercury-vapour lamp produces this compound in a common cleaning method in surface science. The Criegee ["cree-jee"] intermediate is formed using this compound in a (*) namesake reaction converting alkenes to carbonyls. This molecule is the largest regenerated in the Chapman cycle in the atmosphere. Freon was banned by the Montreal Protocol**

because it releases chlorine radicals that break up this compound. For 10 points, name this compound which blocks ultraviolet light in the stratosphere in a namesake layer.

ANSWER: ozone [or O₃] <EWL, Chemistry>

11. This artist superimposed the images of a bikini and a grilled cheese sandwich on a photorealistic oil painting of a verdant natural scene in his work *Cheeky*. Tanks of weakly saline water are used to suspend basketballs in this artist's series of *Total Equilibrium Tanks*, while his later series *Made in Heaven* used various media to depict him having (*) sex with his wife, the Italian porn star La Cicciolina [chee-choh-LEE-nah]. A pig urged on by a boy and two angels represents the title *Banality* of a series by this artist that also included a gold leaf and porcelain sculpture of *Michael Jackson and Bubbles*. For 10 points, name this artist who used brightly coloured steel to sculpt giant balloon dogs.

ANSWER: (Jeffrey) "Jeff" Koons <ED, Visual Fine Arts>

12. A steel version of this object was used by William Burnside in the 1950s, and another version of this object was once destroyed by Cul Borson. After being lost in the Atlantic Ocean, this object acquired a "cancer" caused by a molecular defect, which eventually shattered it. After the addition of some unknown impurity, Myron MacLain accidentally created this object, the primary constituent of which was mined in (*) Wakanda. This object was destroyed after being punched by Thanos whilst wielding the Infinity Gauntlet. It doesn't belong to Wolverine, but this object is made from proto-adamantium – an alloy of steel and vibranium. For 10 points, name this defensive object owned by the leader of The Avengers.

ANSWER: Captain America's shield [accept Steve Rogers in place of Captain America; prompt on shield by asking "Who did it belong to?"; prompt on vibranium; prompt on proto-adamantium] <BS, Trash>

13. A series of loops on the title page of this work have been interpreted by several musicologists as indicating certain instructions for performing it. Paul Hindemith's *Ludus Tonalis* was intended to be a 20th century response to this work. In order to fix a supposedly "faulty" chord progression, an additional measure was added to this work by Gottlieb Schwencke. The first piece in this collection, in (*) C major, consists almost entirely of broken chords, and was adapted by Charles Gounod into his setting of *Ave Maria*. This collection's name referred to a new method of tuning, in contrast to meantone temperament. For 10 points, name this collection of two books of 24 preludes and fugues in each major and minor key, by J. S. Bach.

ANSWER: *The* Well-Tempered Clavier [or *Das Wohltemperierte Klavier*; antiprompt on "Prelude No. 1 in C Major"; do not accept "The Well-Tuned Piano", which is by La Monte Young] <BS, Auditory Fine Arts>

14. This city was nicknamed "Eucalyptopolis" after the successful 1894 introduction of the Australian trees. Kwame Nkrumah's speech urging Africans to "unite now or perish" was delivered in this city. In this city in 1991, the WPE was disbanded by the Woyane or TPLF under Meles Zenawi after its leader had fled to Zimbabwe. This city's (*) Imperial Palace was established on site where Empress Taytu Betul and other Shewa nobles would use hot springs. This city was the original home of both the OAU and the AU. For 10 points, name this capital city established by Menelik II, whose name means "new flower" in Amharic.

ANSWER: Addis Ababa <DJ, History>

15. According to research by Wouter van Hoven, this compound's release as an alarm signal by acacia trees causes an increase in tannin production to kill kudu predators. Amino-eth-oxy-vinyl-glycine and silver thio-sulfate are used to prevent synthesis of this hormone in plants. A-C-C-oxidase catalyses the formation of this compound in the Yang cycle, which biosynthesises this compound from (*) me-thio-nine. Swelling and shortening of the hypo-cotyl occurs when plants are exposed to this compound in the "triple response". The release of this hormone causes leaf abscission and fruit ripening. For 10 points, name this plant hormone, with formula C₂H₄.

ANSWER: ethylene [or ethene] <EWL, Biology>

16. One member of this religion led the defense of the cannon Zamzama in 1805. After 40 men following a leader of this religion gave him a *bedava*, or renunciation of allegiance, they were rallied by Mai Bhago, who led them into the battle of Muktsar. This religion's founder was protected from his father Mehta Kalu by his mother Mata Tripta, who also brought up a daughter named Bebe (*) Nanaki, the first "devoted follower" of this religion. The only woman mentioned in this religion's holy text is Mata Khivi, who, as wife of Angad, established the first communal kitchen or *langar*. For 10 points, name this religion, whose female members are given the name "Kaur", an equivalent to the male "Singh".

ANSWER: Sikhism <DJ, Religion>

17. An example of one of these entities in Montenegro is Our Lady of the Rocks, which is home to a namesake Catholic church. The IJsselooq ["eye-sel-LOHG"] is one of these entities, and is used for the storage of polluted silt. Almere and Lelystad are towns located on the (*) Flevopolder, one of these entities created in the Netherlands. The largest of one of these entities is named for René Levasseur and was formed when a hydroelectric scheme joined two crescent-shaped lakes. Examples of this type of entity were built for Chubu Centrair and Kansai International airports off the coast of Japan. For 10 points, name these human-constructed pieces of land completely surrounded by water.

ANSWER: artificial islands [accept equivalents such as man-made islands; prompt on island] <DK, Geography>

18. One character in this man's work is only implied by the graffiti tag 'Bango Skank', and another masquerades as the comedian Joe Collins. In another work by this man, summary execution is referred to as "buying a ticket". One character created by this man repeatedly spells various words as "M-O-O-N", and fictional locations created by this author include Can'-Ka No Rey, the Free Zone, and the town of (*) Derry. One recurring character in this man's work narrowly escapes a nuclear explosion in Las Vegas before being killed by Mordred Deschain, and most commonly uses the name Randall Flagg. FTP, name this American writer, also known by the pseudonym Richard Bachman, the author of *The Long Walk*, *The Dark Tower*, and *The Stand*.

ANSWER: Stephen King [accept Richard Bachman until said] <EBL, Trash>

19. One character in this novel imagines Pectin, Hectin and Abednego as three brothers with hammers whilst making a recipe for banana jam. Another character in this novel claims that his life's greatest setback was not having a species of moth that fell in his drink named after him. One character in this novel goes to see *The Sound of Music* before being assaulted by the sinister (*) Orangedrink Lemondrink Man, causing that character to remain silent. After the capsizing of a boat containing three runaways causes Sophie Mol to drown, the Untouchable Velutha is beaten to death in police custody. For 10 points, name this novel about the twins Rahel and Estha, which won the 1997 Booker Prize as the debut novel of Arundhati Roy.

ANSWER: *The God of Small Things* <EWL, Literature>

20. Lanthanum hexaboride is used in Wehnelt cylinders in the equipment used for this technique. Some samples used in one form of this technique are pre-treated with sodium thio-carbo-hydra-zide and osmium tetroxide in the OTO staining method. Pairs of Kikuchi lines are used to analyse the output of one form of this technique. Liquid helium is used to freeze samples in the (*) "cryo" form of this technique. Samples used in this technique are often gold-coated to increase conductivity. Field emission guns are used to produce the necessary particles for this technique. For 10 points, name this technique, which uses a negatively-charged particle to see very small things.

ANSWER: electron microscopy [accept EM, SEM, TEM, cryoEM, scanning electron microscopy, transmission electron microscopy; prompt on "microscopy"] <EWL, Physics>

Bonuses

1. Did you know that if you say “space ghetto” in an American accent it sounds like a Scotsman saying “Spice Girl”? For 10 points each:

[10] The ghetto/girl similarity relies on this specific vocalisation, which represents an /r/ in a Scottish accent but a /t/ in an American accent.

ANSWER: (voiced) **alveolar tap** [or **alveolar flap**; technically don't accept “dental tap/flap”, “denti-alveolar tap/flap” or “post-alveolar tap/flap” in case anyone gets confused about what language we're in]

[10] /r/ and /t/ are examples of these basic units of sound, of which English has 44.

ANSWER: **phoneme**

[10] This name is given to two words that differ by only a single phonological element, such as “space” and “spice” in a conventional English accent.

ANSWER: **minimal pair** [accept **minimal set**] <EWL, Social Science>

2. If you're going to riot, at least focus it on some arbitrary object so historians know what to call it. For 10 points each:

[10] The 1826 Eggnog Riot saw cadets smuggle two gallons of whisky into this New York military school for a Christmas party, and led to twenty-one court martials.

ANSWER: **United States Military Academy** [accept **West Point** or The **Academy**]

[10] These 1943 riots saw servicemen in California attacking young people wearing the eponymous clothes, nominally because they were a waste of fabric, but probably because most of them happened to be immigrants.

ANSWER: **Zoot Suit** Riots

[10] On a lighter sartorial note, an eponymous New York riot in 1922 saw men attacked for wearing this accessory after the arbitrarily-acceptable date of September 15th.

ANSWER: **Straw hat** [or **boater**; or **Panama hat**; prompt on **hat**] <EBL, History>

3. Answer the following on the dramatic monologues of Robert Browning, for 10 points each:

[10] Browning's dramatic monologues include this poem, in which the speaker discusses Fra Pandolf's painting of his late wife.

ANSWER: **“My Last Duchess”**

[10] This other Browning monologue sees the title Renaissance painter caught by watchmen sneaking out of the Medici Palace, before he explains his entire life story, including how he learned to paint his fellow monks at the Carmelite priory.

ANSWER: **“Fra Lippo Lippi”**

[10] The speaker of Browning's longest dramatic monologue is Mr Sludge, a member of this profession, who begs “Now don't, sir! Don't expose me!” and is based on the Victorian fraudster Daniel Home.

ANSWER: a **medium** [or **spiritualist**] <ABB, Literature>

4. Types of these marine habitats include black smokers and white smokers. For 10 points each:

[10] Name these features which often form on mid-ocean ridges. They are fissures which issue geothermally heated water.

ANSWER: **hydrothermal vents** [prompt on “vents”]

[10] These similar marine habitats feature brine pools formed by the release of methane or hydrogen sulfide. They host tubeworms, which are replaced by coral when these features become inactive.

ANSWER: **cold seeps**

[10] One species of this animal was discovered to be the only vertebrate to live amongst hydrothermal vents, in its namesake “city” near American Samoa. Other species of these animals undertake a mass migration to breed in the Sargasso Sea.

ANSWER: **eels** <EWL, Biology>

5. Some Pokémon are inspired by works of literature. For 10 points each:

[10] This kind of animal appears in the title of a Philip K. Dick novel about the bounty hunter Rick Deckard, and inspired the concept of the Pokémon Mareep, Flaaffy and Ampharos.

ANSWER: **electric sheep** [accept ***Do Androids Dream of Electric Sheep?***; prompt on **sheep**]

[10] The last evolution of the fourth generation fire starter Chimchar is based on the character Sun Wukong from this Chinese novel.

ANSWER: **Journey to the West** [or ***Xiyouji***; or **Monkey**]

[10] Keldeo, a young recruit to the Swords of Justice group of Pokémon who resembles a yellow pony, is an allusion to this literary character.

ANSWER: **d'Artagnan** [from *The Three Musketeers* by Alexandre Dumas] <PA, Miscellaneous>

6. Frederic Chopin's piece of this type in 12/8 time used a falling 3-quaver motif to represent the paddling of oars, and is in F-sharp major. For 10 points each:

[10] Name these songs that were traditionally sung by gondoliers. Pangloss joins the Kings in one of these songs from Bernstein's *Candide*.

ANSWER: **barcarolle** [prompt on answers like **gondola song** or **boat song**]

[10] Perhaps the most famous barcarolle is the aria “Belle nuit, ô nuit d'amour”, a duet for Giulietta and Nicklausse from this Offenbach opera.

ANSWER: *The **Tales of Hoffmann*** [or *Les **contes d'Hoffmann***]

[10] This German composer included a “Venetian Boat Songs” as part of the first book of his collection *Songs without Words*, which he composed in the same year as his *Reformation Symphony*.

ANSWER: Felix **Mendelssohn** <BS, Auditory Fine Arts>

7. The General Number Field Sieve is the asymptotically fastest known algorithm that can accomplish this task, though Lenstra's Elliptic Curve Method performs better on smaller inputs. For 10 points each:

[10] Name this mathematical problem that is conjectured to be in the complexity class “NP-intermediate”. The Pollard-rho algorithm is a space-efficient algorithm that can accomplish this task.

ANSWER: integer **factorisation** [accept “prime **factorisation**”; accept similar things like “**factoring** a number”]

[10] Integer factorisation can only be in the class “NP-intermediate” if *this class* is not equal to NP. One of the Millennium Prize problems centres on determining whether this complexity class equals NP.

ANSWER: **P** [accept “**polynomial** time”; accept **P**TIME]

[10] By contrast, integer factorisation is known to be in the class BQP, so it can be efficiently solved by a quantum computer. This order-finding quantum algorithm used to factor integers runs quickly due to the effectiveness of the quantum Fourier transform.

ANSWER: **Shor**'s algorithm <BS, Other Science>

8. This character laments the end of her education, because winning scholarships is all she'd ever really been good at. For 10 points each:

[10] Name this literary protagonist, who suffers a breakdown after moving to New York during a “queer, sultry summer, the summer they electrocuted the Rosenbergs.”

ANSWER: **Esther** Greenwood

[10] Esther is the protagonist of this semi-autobiographical and only completed novel of Sylvia Plath. It was published under a pseudonym until after her death.

ANSWER: **The Bell Jar**

[10] Esther resolves to break-up with this character, after deciding that he is a hypocrite when he reveals that he is not a virgin. She finds herself unable to do so when he contracts tuberculosis, and this man later proposes to her.

ANSWER: **Buddy** Willard <TH, Literature>

9. This series of structures built by the Khmer people is the largest religious complex in the world. For 10 points each:

[10] Name this Hindu temple complex, built in the 12th century in what is now Cambodia.

ANSWER: **Angkor Wat** [prompt on **Angkor**]

[10] Scenes from the Ramayana and the Mahabharata as well as the Churning of the Sea of Milk are displayed at Angkor Wat in this sculptural style, in which sculpted characters have only small projection or depth away from the wall.

ANSWER: **bas-relief** [or **low relief** or **basso rilievo** [prompt on **relief**; do not accept “high”, “shallow”, “sunken”, “mid” or other specific types of relief]

[10] The Bayon temple at Angkor Wat demonstrates the influence of south Indian architecture through its eight examples of these monumental towers that can be found at the entrance of Hindu temples.

ANSWER: **gopura** [or **gopuram**] <PA, Miscellaneous>

10. Broadcasts of this type have included 24 hours of lectures on the events of May 17th 1814 and 14 hours of a bird feeder decorated as a café. For 10 points each:

[10] Name this style of live marathon-style television, most popular in Norway, which peaked in 2015 with a 56-day broadcast of a coastal cruise from Vadsø to Oslo.

ANSWER: **Slow** television [accept **Sakte-TV**]

[10] One of the most popular slow TV events saw 1.3 million people tune in to a live broadcast of a 12-hour boat trip along this waterway in 2012.

ANSWER: The **Telemark Canal** [accept **Telemarkskanalen** - *minutt for minutt*; prompt on **canal**]

[10] Probably the only controversy to come out of slow TV came when the 2013 broadcast *Nasjonal vedkveld* prompted numerous angry messages to NRK disputing the correct way up to store this material.

ANSWER: fire**wood** [prompt on **logs** or **bark**] <EBL, Trash>

11. Virgil combined the primary themes of both Homeric epics for his version in the Aeneid. For 10 points each:

[10] In the Iliad, this section declares “So the plan of Zeus was accomplished”, while in the Odyssey it is focused upon the multiplicity of Odysseus’ woes and travels.

ANSWER: **proem** [accept **incipit**, prompt on “**beginning**” or similar]

[10] Proems were short hymns to these inspirational goddesses, whose aid the poet asked in telling the full story. Hesiod addresses these goddesses in both their Heliconian and Olympian guises.

ANSWER: The **Muses** [or **mousai**]

[10] These scenes of Greek epic poems describe a warrior’s skill and supremacy in battle. Examples of these scenes include that of Diomedes in Book V, and Patroclus’ ultimately fateful one in Book XVI of the Iliad.

ANSWER: **aristeia** [or **aristia**] <PA, Literature>

12. Answer the following about diagrams used in electrochemistry, for 10 points each:

[10] Pourbaix diagrams depict stable equilibrium phases in an electrochemical system at different pH levels and electrode potentials. Lines on the diagram are calculated using this fundamental equation of electrochemistry named for a German.

ANSWER: **Nernst** equation

[10] The Pourbaix diagram for this element can be used to show why it never corrodes in a pure aqueous environment, as the immune region extends above the lines for the cathodic reactions of water with hydrogen and oxygen.

ANSWER: **gold** [or **Au**]

[10] This chemist names a diagram which indicates the relative stability of the oxidation states of a substance and can be used to predict com-proportion-ation and dis-proportion-ation reactions.

ANSWER: Arthur Atwater **Frost** [accept **Frost** diagrams or **Frost**-Ebsworth diagrams] <EWL, Chemistry>

13. There are four arts a Chinese scholar should know, but for our purposes we'll only look at paintings. For 10 points each:

[10] Chinese landscapes were often created by scholars by using brushes to paint a simple wash of this substance, creating a pigment-free image in a range of grey tones.

ANSWER: black **ink** [accept **ink wash** painting]

[10] The Later Shu painter Huang Quan originated this naturalistic style of painting, named for two of its traditional subject matters; this type of painting can also depict insects and fish.

ANSWER: **bird**-and-**flower** painting [or **huaniaohua**; prompt on partial answer; accept underlined words in either order]

[10] This plant appears in Chinese painting as one of the Four Gentlemen along with the plum blossom, the chrysanthemum and the orchid; it also appears with pine and plum as one of the Three Friends of Winter.

ANSWER: **bamboo** [or **zhúzi**] <PA, Visual Fine Arts>

14. Sometimes, a great power shows up with a powerful ship in order to enforce its will, in what is known as Gunboat Diplomacy. For ten points each:

[10] This first Liberal Prime Minister gave the "Civis Romanus Sum" speech in 1850 to explain his defence of the right of the Gibraltar trader Don Pacifico in a blockade of Greece.

ANSWER: Henry John **Temple**, 3rd Viscount **Palmerston** [or **Lord Palmerston**]

[10] A 1911 crisis between France and Germany over Morocco was precipitated by the arrival of this German gunboat in the port of Agadir.

ANSWER: SMS **Panther**

[10] One example of failed gunboat diplomacy was the failure of Bancroft Gherardi to secure concessions from this country in the Mole Saint-Nicholas affair, after a delay in gaining credential from Benjamin Harrison strengthened the position of President Florvil Hyppolite.

ANSWER: **Haiti** <PA, History>

15. This place may have been ruled by a tyrannical elite called the Azteca Chicomoztoca, and its inhabitants abandoned it on the day Four Eagle of the year One Knife. For 10 points each:

[10] Name this lost city, the legendary home of the Nahuatl-speaking peoples between their exit from the caves of Chicomoztoc and their migration to Tenochtitlan.

ANSWER: **Aztlán** [pron. AH-stlahn, but be nice]

[10] This other lost city is mentioned in the Qur'an's Dawn Surah as an example of Allah's punishment. It is traditionally described as having "lofty pillars", although some translations claim these were actually tent poles.

ANSWER: **Iram** of the pillars [accept **Irem**, **Aram**, **Erum**, **Irum** or **Iram dhāt al-'imād**]

[10] Probably the most famous lost city is this legendary location in South America, although its name originally referred to the ruler of the Muisca, who was covered in gold dust and submerged in Lake Guatavita.

ANSWER: **El Dorado** <EBL, Mythology>

16. This substance is gathered from Heaven Smiles in 'thick' and 'thin' varieties, and is distributed by Andrei Ulmeyda's fictional company First Life, Inc. For 10 points each:

[10] Name this substance, the primary means of levelling in *Killer7*, as well as in a namesake 2015 game set in the Gothic city of Yharnam.

ANSWER: **blood** [prompt on **serum**, accept **Bloodborne**]

[10] The latter game, *Bloodborne*, was developed by FromSoftware, the creators of this other fantasy franchise to which it is often seen as a spiritual successor. Hallmarks of this series include vague, implicit plots, heavily skill-based combat, and high difficulty.

ANSWER: **Souls** series [accept **Soulsborne**, **Dark Souls** or **Demon's Souls**]

[10] FromSoftware and *Killer7*'s Grasshopper Manufacture both hail from this country, also the home of less blood-obsessed developers like Capcom, Konami, and Nintendo.

ANSWER: **Japan** <EBL, Trash>

17. This town's name literally means "crow valley". For 10 points each:

[10] Name this south Welsh town situated midway between Pontypool and Newport.

ANSWER: **Cwmbran**

[10] Cwmbran is an example of one of these settlements designed and built to house large overspill populations from existing British cities. Other examples include Basildon and Milton Keynes.

ANSWER: **new towns**

[10] Like many new towns, Cwmbran has its fair share of this type of housing. Named after a model community in New Jersey, this housing design consists of rows of terraced houses facing each other across a communal green space with garages located behind gardens.

ANSWER: **Radburn** design housing (accept **Radburn** housing, **Radburn** design, **Radburn** concept and **Radburn** principle) <DK, Geography>

18. For 10 points each, name some recipients of the Rolf Schock Prize in Logic and Philosophy:

[10] This Harvard philosopher won the first Schock Prize in 1993. He attacked the distinction between analytic and synthetic truths in his essay "Two Dogmas of Empiricism".

ANSWER: Willard Van Orman **Quine**

[10] This recipient of the 2014 Schock Prize used the question of whether or not an exact atomic replica of an individual would have the same personal identity in his 1984 book *Reasons and Persons*.

ANSWER: Derek **Parfit**

[10] A thought experiment concerning a planet where water had a chemical formula of XYZ was created by this philosopher, who won the 2011 Schock Prize.

ANSWER: Hilary **Putnam** <FCM, Philosophy>

19. Seven colours not enough for you? Try these on for size. For 10 points each:

[10] 'Tang' and 'burn' are infrared colours seen by the albino Olivia Presteign, allowing her to see the otherwise invisible tattoo scars on Gully Foyle's face in this 1957 Alfred Bester novel.

ANSWER: **The Stars My Destination** [accept **Tiger! Tiger!**]

[10] The Hoolooovoo are a superintelligent shade of blue, of which one is first seen "refracted into a free-standing prism" in this 1979 book, whose other races include Blagulon Kappans and Magratheans.

ANSWER: *The **Hitchhiker's Guide to the Galaxy*** [prompt on ***Hitchhiker's Guide***]

[10] The ultraviolet hues of *amarklor* and *kalish* are experienced by these aliens of *Star Trek* fame, the originators of the world's most popular fictional language.

ANSWER: **Klingons** [accept **tlhIngan**] <EBL, Trash>

20. Emmanuel Le Roy Ladurie's pioneering social history *Montaillou* concerns this heresy. For 10 points each:

[10] Name this dualist Christian movement whose name derives from the Greek for "the pure ones".

ANSWER: **Cathars** or **Catharism** [accept **Albigensians**]

[10] The Albigensian Crusade was called to suppress Catharism. Perhaps its most infamous event was the massacre in this town, at which a papal legate allegedly said "Kill them all; God will know his own".

ANSWER: Massacre at **Beziers**

[10] The Crusade had little practical impact on the Cathar heresy; however, it did succeed in crushing the autonomy of this southern French county, whose ruler was forced to sign the 1229 Treaty of Paris.

ANSWER: County of **Toulouse** <PA, History>